
Product Data Sheet

Product Name: CDK1 Human, Sf9

Cat. No.: GP22440

Batch No.: 1

Product Data

Purity >98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms Cyclin-Dependent Kinase 1; CDC2; Cell Division Cycle 2; G1 To S And G2 To M; Cell Division Control Protein 2 Homolog; Cell Division Protein Kinase 1; P34 Protein Kinase; P34CDC2; CDC28A; Cell Cycle Controller CDC2; EC 2.7.11.22; EC 2.7.11.23; CDKN1; Cyclin-dependent kinase 1.

Amino Acid Sequence
MEDYTKIEKI GEGTYGVVYK GRHKTGQVV AMKKIRLESE
EEGVPSTAIRESLLKELRH PNIVSLQDVL MQDSRLYLIF EFLSMDLKKY
LDSIPPGQYM DSSLVKSYLY QILQGIVFCHSRRVLHRDLK PQNLLIDDKG
TIKLADFGLA RAFGIPIRVY THEVVT LWYR SPEVLLGSARYSTPVDIWSI
GTIFAELATK KPLFHGDSEI DQLFRIFRAL GTPNNEVWPEVESLQDYKNT
FPKWKPGSLA SHVKNLDENG LDLLSKMLIY DPAKRISGKM ALNHPYFNDL
DNQIKKMLEHHHHHH.

Formulation CDK1 protein solution (0.5mg/ml) contains Phosphate buffered saline (pH7.4), 30% glycerol, 2mM DTT and 0.1mM PMSF.

Introduction

Cyclin-dependent kinase 1 (CDK1) plays a significant part in the control of the eukaryotic cell cycle through modulating the centrosome cycle in addition to mitotic onset; CDK1 promotes G2-M transition and regulates G1 progress and G1-S transition using association with multiple interphase cyclins. CDK1 is essential in higher cells for the entry into S-phase and mitosis.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

CDK1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 305 amino acids (1-297 a.a.) and having a molecular mass of 35.1 kDa. CDK1 is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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